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April 2, 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Kamran AHMED et al.
Serial No.:	09/526,441
Filed:	March 16, 2000
Title:	USER SELECTABLE HARDWARE ZOOM IN A VIDEO DISPLAY SYSTEM
Group Art Unit:	2672
Examiner:	Jeffrey A. Brier – Tel. N° (703) 305-4723
Agent of Record:	James Anglehart - Tel. N° (514) 847-4244

Commissioner of Patents
U.S. Patent and Trademark Office
2011 South Clark Place
Customer Window
Crystal Plaza Two, Lobby, Room 1B03
Arlington, VA 22202

Declaration

Sir:

I, **Alexandre LAHAISE**, do hereby solemnly declare that:

(1) I am a citizen of Canada and was employed as a software engineer for Matrox Graphics Inc. on March 16, 2000.

(2) I am co-inventor of United States patent application serial number 09/526,441 filed on March 16, 2000.

(3) I participated in the design and development of the G400 and G400 Max for Matrox Graphics Inc.

the main surface in the frame buffer memory is scaled. The scaled portion of the main surface in the frame buffer memory is converted into a display signal. The display signal is output to the zoom display device.

(9) I have read and understood claims 1 and 21 in the pending application. All of the features present in these claims were working in the G400 and G400 Max products released to the public in June of 1999.

(10) I, the undersigned, declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C §1001 of the United States Code and that such willful false statements may jeopardize the validity of any patent issued for the above-referenced patent application.

Alexandre LAHAISE

By: _____ Date: 6 April 2004

(4) The capabilities of the G400 and G400 Max were announced to the public by May 10, 1999, as evidenced by the enclosed Press Release provided in exhibit A to this my declaration.

(5) The G400 and G400 Max were released to the public by June, 1999 as evidenced by the enclosed review articles provided in exhibit B to this my declaration.

(6) The G400 and G400 Max are products that include a graphic card and an associated driver that have the capabilities to perform a method of controlling a display controller system to provide a display surface zoom, the display controller system having a main surface in a frame buffer memory and output to a zoom display device, as per the preferred embodiment of the detailed description of the present application.

(7) The G400 and G400 Max products have the ability to receive user input defining coordinates of a frame portion within the main surface in the frame buffer memory. A resolution of the zoom display device is determined and an aspect ratio of the portion defined by the user input is adjusted to correspond to the resolution. The display controller system can be programmed to implement the display surface zoom to provide a full screen view of the portion on the zoom display device. In the display controller system, the portion of the main surface in the frame buffer memory is scaled. Converting the scaled portion of the main surface in the frame buffer memory into a display signal is also done in the display controller system. The display signal is output from the display controller system to the zoom display device.

(8) The G400 and G400 Max products have the ability to receive user input defining coordinates of a fractional portion of the main surface in the frame buffer memory to be scaled and displayed, the fractional portion being a non-integer fraction of the main surface of the frame buffer memory. A resolution of the zoom display device is determined and an aspect ratio of the portion defined by the user input is adjusted to correspond to the resolution. The display controller system is programmed to implement the display surface zoom to provide full screen view of the portion on the zoom display device. The portion of